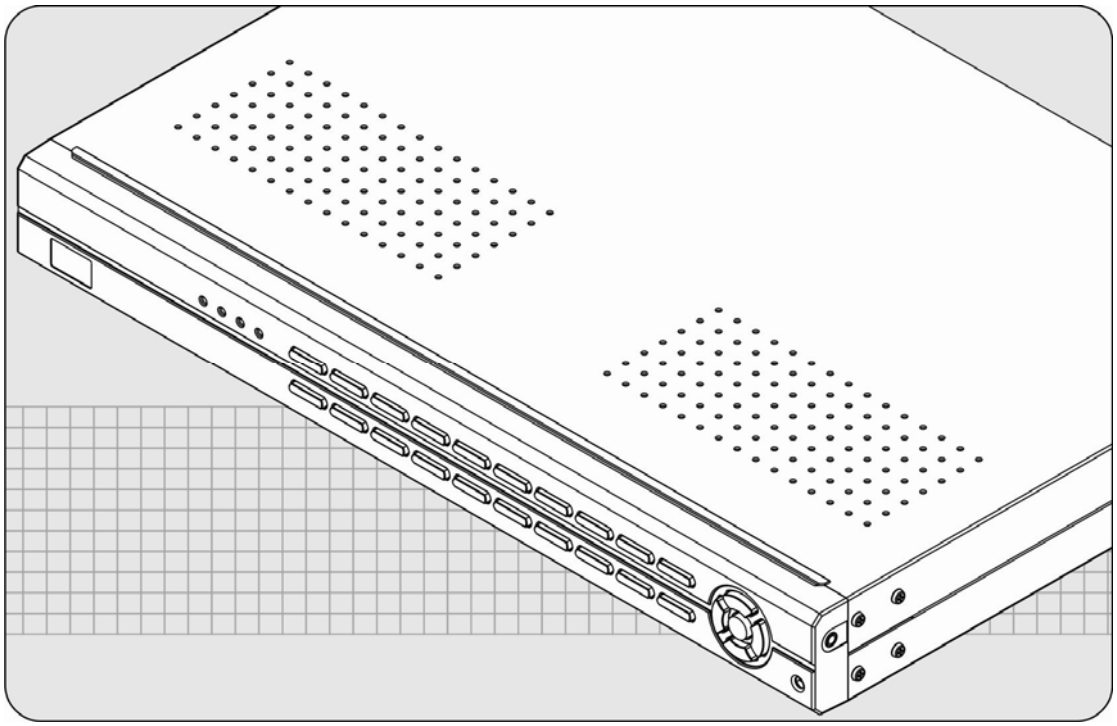
16CH H.264 Digital Video Recorder

User's Manual



STANDALONE DVR SYSTEM

2010 July V1.1

WARNING

- Do not expose the DVR under the sunlight, heat or wet environment while installation. As it could decrease the performance of DVR and damage the machine.
- Do not touch the power plug or case with wet hands as this could result electric shock.
- Do not forcedly bend or put heavy object on power cable as this could result in injury to personal or equipment.
- Do not operate with damaged power cord or loose electrical outlet as this could result in electric shock or accident.
- Please use individual power instead of share electrical outlets with other electrical equipment as this could result in damage or accident.
- Do not attempt to service this DVR by yourself as it may expose you to dangerous voltage or other hazards. Please refer all service to the qualified servicing distributor.
- Do not open the covers or insert any object into DVR.

CAUTION

- Do not place the machine on an uneven surface or it would decrease the DVR efficiency or malfunction.
- Avoid any shock or bumping of the DVR while recording. Improper handling could damage the system.

	CAUTION	
	Make sure the voltage selector switch (115V/230V) is set to appropriate setting before plug in!	

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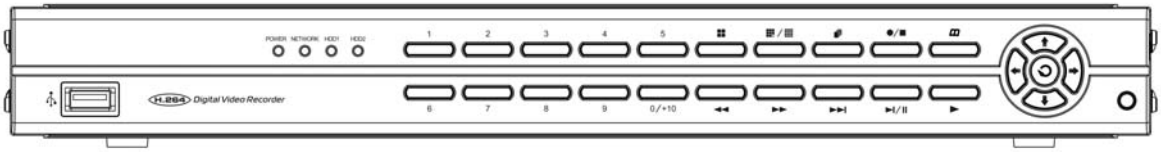
1. Specification

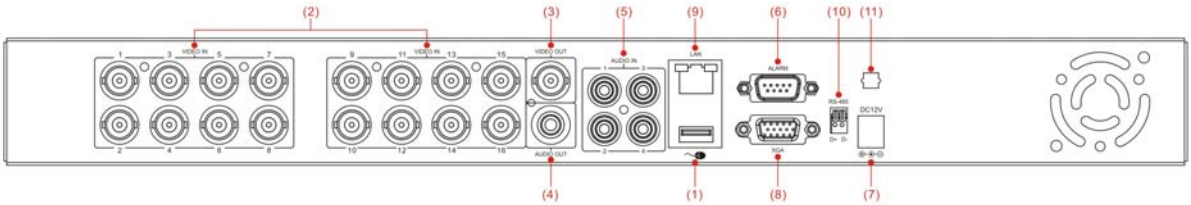
Video Format		NTSC	PAL
Video Input		16 Ch Input / BNC	
Audio Input		4 x RCA (CH4 Two-way Audio)	
Video Output		1 Ch Output / BNC	
Audio Output		1 Ch Output / RCA	
XGA Output		800x600、1024x768、1280x1024	
Alarm Input		4Ch Alarm In	
Alarm Output		Buzzer，2 x Relay Out (N.O、N.C)	
Display Mode		Full Screen, 4/9/13/16 CH Split Screen, Auto Swtich	
Display Resolution		720 x 480	720 x 576
Recording Resolution	CIF	360 x 240	360 x 288
Recording Frame		Max. 480 FPS	Max. 400 FPS
Compression Algorithm		Modified H.264	
Operating System		Embedded Linux	
Pentaplex		Record / Playback / Network / Mobile Phone / Back up	
Recording Mode		Manual, Schedule, Event	
Schedule Recording		Full Recording, Motion, Alarm, Manual Recording	
Status Indicator		Power, Network, HDD1, HDD2	
Event Mode		Alarm Trigger, Motion Trigger, Video Loss	
		Recoridng Duration: 1~60 sec.	
System Log		Up to 2000 recording list displayed	
Playback Mode		Normal Speed: x1	
		Fast Forward: x2 / x4 / x8 / x16 multiple speed	
		Slow Forward: 1/2、1/4、1/8 multiple speed	
		Fast Rewind: x2 / x4 / x8 / x16 multiple speed	
		Frame by Frame Playback: Forward	
		Search Function: Time / Event	
Network Protocol		TCP/IP / PPPoE / DHCP / SMTP / DDNS	
Inter-communication		Yes	
HDD Type		SATA 3.5”HDD x 2 (No HDD Included)	
PTZ Control		Communication Protocol (PELCO P, PELCO D, MIKAMI) (RS-485)	
Backup Device		USB 2.0 Flash Memory Stick	
Firmware Update		Host USB、LAN / WAN	
Multi-Language		English/ Traditional Chinese / Germany /Russian/ French / Spanish / Italian / Portuguese / Turkish/ Japanese / Korean/ Simple Chinese / Czech Republic / Poland	
Control Mode		Front Panel / Remote Control / USB Mouse / Internet	
Network Control		IE Browser / Multiwindow(CMS) Remote Control	
Network Function		Live Display / Playback / PTZ Control / System Setup	
IR Extension		YES (Optional)	
Power Supply		DC 12V / 4A(AC100V~240V 50/60HZ)	
Unit Dimension		314mm (D)x 430mm (W) x 53 (H) mm	
Weight		3kg (HDD and Power Adapter Not Included)	
Operating Temperature		0℃ ~ 46℃	

2. Front Panel



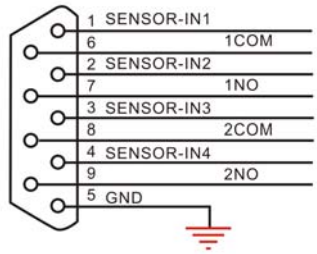
	MENU	Under the live viewing mode, press MENU to enter the main menu. Under the menu mode, press MENU to go to the upper menu.
●/■	Stop Manual Record	To stop the operation or go to the upper menu under the playback mode. Press the Manual Record button to start recording under the live mode.
▶I/II	Pause Step Forward	To pause the playback under the playback mode. To playback frame by frame in each time under the pause mode during the playback.
▶	Play	Under the live viewing mode, press the Play button to enter the playback mode.
◀◀	Fast Rewind	Rewind speed: x2 / x4 / x8 /x16
▶▶	Fast Forward	Forward speed: x2 / x4 / x8 / x16
▶▶I	Slow Forward	Slow forward speed: 1/2、1/4、1/8
▲ ▼	Up Down	To move up or down of the selection setting in the menu. Under the live mode of Single/Quad/9 display, use the button to control video display.
◀ ▶	Left Right	To move left or right of the selection setting in the menu. Change to Single/Quad/9/13/16 division display under the living mode.
	Enter	Press the Enter button to confirm the setup or go into sub-menu.
POWER	Power Indicator LED	The LED will light on when power on.
NETWORK	Network Indicator LED	The LED will light on when network connected.
HDD1	HDD 1 Indicator LED	The LED will light on when the HDD 1 is written.
HDD2	HDD 2 Indicator LED	The LED will light on when the HDD 2 is written.
0(+10)-9	Channel 1~16	Under the live viewing mode or playback mode, press channel 1~16 button to display the individual channel screen.
/	9 / 16 CH Split	9 / 16 channel split screen display.
	Quad	Quad screen display.
	Auto Switching	Under the live viewing mode, press the button to start/stop the auto switching function.
	USB2.0 Slot	For USB 2.0 Flash Memory Stick to Backup and Firmware Update

3. Rear Panel



1	USB Mouse Port	1.0 USB Mouse
2	VIDEO IN	1~16 CH Video Input (BNC)
3	VIDEO OUT	Video Output (BNC)
4	AUDIO OUT	Audio Output (RCA)
5	AUDIO IN	1~4 CH Audio Input (CH.4 is for external input)
6	ALARM	Includes 4 DI AND 2 DO (Default N.O.)
7	DC12V	Power Input
8	XGA	LCD Monitor Output
9	LAN	RJ45 Network Connection
10	RS-485	RS-485 Connection,For Speed Dome Use
11	HOOK	Cable Hook

- **Alarm I/O Instruction**



Instruction
Pin 1. CH 1 SENSOR INPUT
Pin 2. CH 2 SENSOR INPUT
Pin 3. CH 3 SENSOR INPUT
Pin 4. CH 4 SENSOR INPUT
Pin 5. Ground
Pin 6. 1ST RELAY : COM
Pin 7. 1ST RELAY : N.O (Default)
Pin 8. 2ND RELAY : COM
Pin 9. 2ND RELAY : N.O (Default)

4. DVR Installation

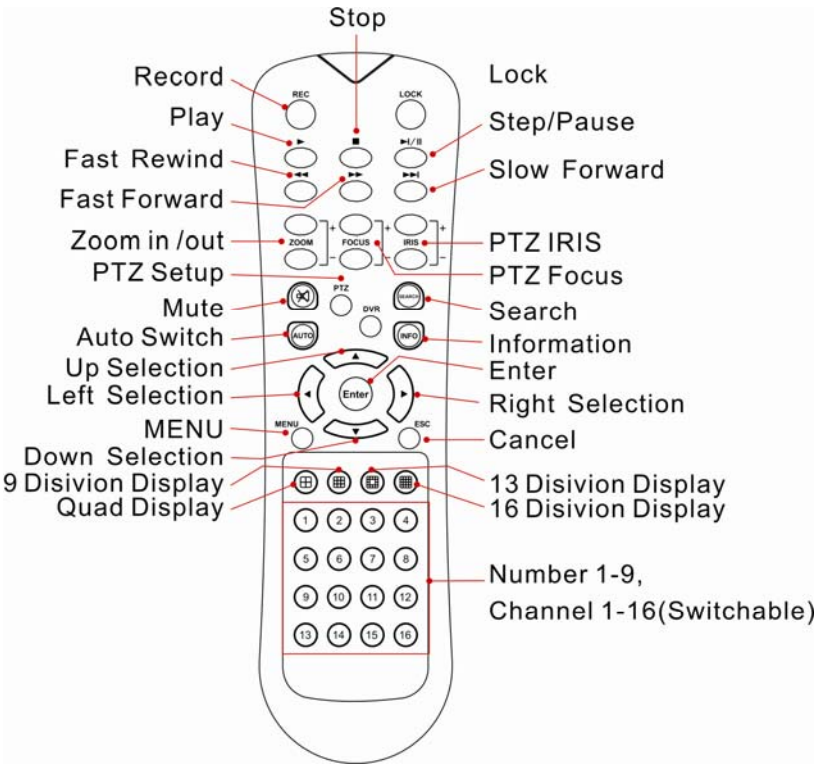
- Connect the camera video output to the DVR video input port with BNC connectors.
  The camera install coaxial cable is suggested RG-59 or above.
- DVR Network installation
  Please connect DVR to HUB or router by using RJ-45 network cable and make sure the DVR network indicator LED is on.
  (Please refer to **7.2.7 Network** for further network setting information of using static IP, PPPoE or DHCP.)
- Alarm Installation
  Please refer to **3. Rear Panel** for external alarm I/O installation.
  (Please refer to **7.2.4 Alarmin & 7.2.5 Alarmout**.)
- Speed Dome Installation
  This product can be installed protocol (Pelco D, Pelco P, MIKAMI, LILIN, Samsung)
- Power Installation

Please use the provided power cable and adaptor to connect the DVR (AC100V~AC230V).
Please refer to **3. Rear Panel** for connecting position.
The DVR system will enter into live viewing mode when power is connected.
Please refer to **6. Disply Mode** for more information.

5. System Operation

There are 3 kinds of DVR control method: front panel, remote control and USB mouse.Please refer to **2. Front panel** .

- **Mouse Operation**
  - Right click the mouse button under the live viewing mode for enter into Quick Menu.
  - Left click the mouse button under the main menu to go to menu selection.
  - Left click the mouse button under the select menu to go to the sub-select menu.
  - Right click the mouse button under menu selection to EXIT.
  - Use the mouse or Virtual Keyboard to change the setting
- **Remote control operation**
  - Please refer to **2. Front panel** and the reference table of the button as below.



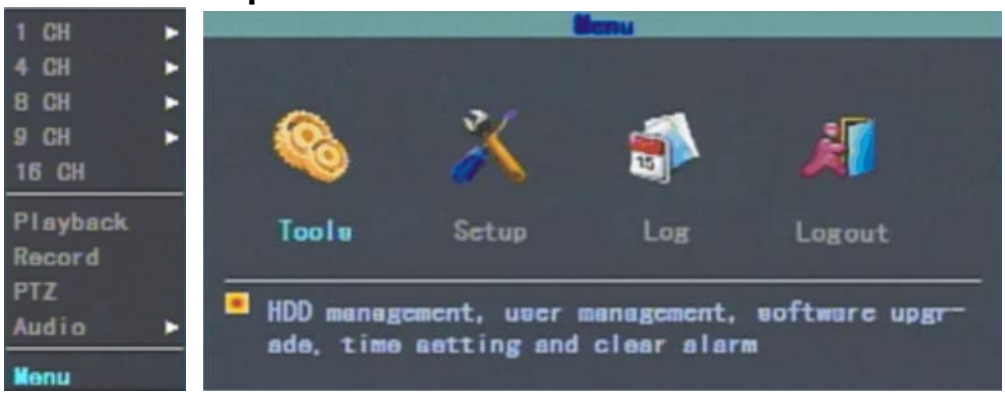
- **Virtual Keyboard Operation**

The text input of the virtual keyboard is as below:

Menu Operation	Front Panel & Remote Control Operation	Mouse Operation
Select character from virtual keyboard	[Up/Down/Left/Right]	[Move Cursor]
Key in the select character	[Enter]	[Left Click]
Exit the virtual keyboard	[MENU]	[Right Click]

Key Description of Virtual Keyboard	
Num	Captital letter shift
123	Number
abc	lowercase letter shift
,	Symbol

- **Main Menu Operation**



Setup Operation	Front Panel & Remote Control	USB Mouse
Select Item	[Up/Down/Left/Right]	[Move Cursor]
Enter Select Item	[Enter]	[Left Click]
Exit Main Menu	[MENU & ESC]	[Right Click]

6. Display Mode

There are 3 kinds of screen display mode: Live, Auto Switching and PTZ.

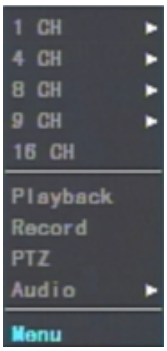
- **Live Viewing Mode**

  The DVR will go to the live viewing mode after bootup. There are 5 different status icon:

  1. ：Record
  2. ：Motion Triggered
  3. ：Alarm Triggered
  4. ：Schedule Record
  5. ：Manual Record

Setup Operation	Front Panel&Remote Control	USB Mouse
CH. 1~16 SINGLE DISPLAY	[Channel 0(+10)~9 and 1~16]	Left click upon selected channel
4/9/13/16 channel Split Display	[4/9/13/16 Split]	Left click upon UI Menu
Quick Menu	[MENU]	[Right Click]
Playback Mode	[Play / Search]	Left click upon Recording data of UI Menuto operate
Start/Stop the Manual Record	[record] and select option in Manual Recording of UI Menu	Left click upon Manual Recording of UI Menuto select option
Start/Stop the Auto Switching	[Auto Switching]	Set Up in UI Menu
Start/Stop the PTZ Auto Tracking	Set Up in UI Menu	Set Up in UI Menu
Start/Stop Mute	[Mute]	Set Up in UI Menu

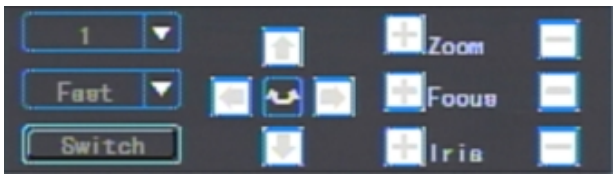
Quick Menu



Setup Operation	Front Panel&Remote Control	USB Mouse
Select Item	[up / down、right / left]	[Moving Cursor]
Enter the Select Item	[enter]	[Left Click]
Exit	[MENU / ESC]	[Right Click]

PTZ

Please set the speed dome properly before control PTZ. Please refer to **7.2.8 PTZ** for setup.



Setup Operation	Front Panel&Remote Control	USB Mouse
Select Item	[up / down、right / left]	[Moving Cursor]
Enter Select Item	[enter]	[Left Click]
Select PTZ Channel	[up / down]	[Left Click]
Zoom +,-	ZOOM + −	
Focus, +-	Focus + −	
Iris, +-	IRIS + −	
Adjust Movment Speed	Fast、Normal、Slow	
PTZ Upward		
PTZ Downward		
PTZ Left		
PTZ Right		
Start/Stop Auto Tracking		
Exit	[MENU]	[Right Click]

Auto Switching

Auto switch starts from orderly CH1 to CH16 , or split display orderly (exclude 13 and 16 split display).

Manual Recording

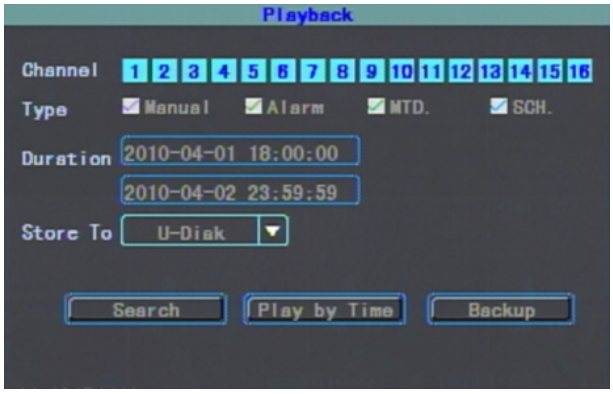
Enable manual: here shows selected camera's status, setup and signal：

Setup Operation	Front Panel&Remote Control	USB Mouse
Select Item	[right / left]	[Moving Cursor]
Enter Select Item	[up / down] and [enter]	[Left Click]
Exit	[MENU] or [ESC]	[Right Click]

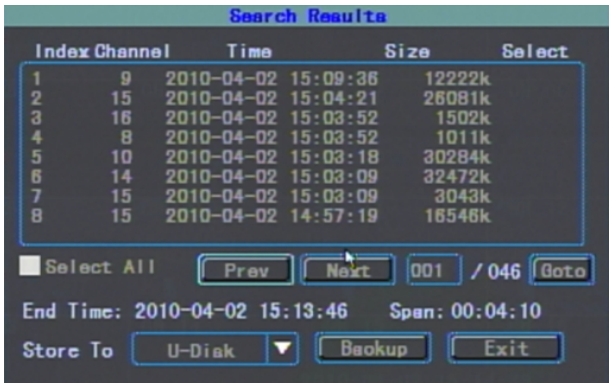
Signal Instruction

1. : Not in recording.
2. : In recording.
3. : Not in recording yet in internet surveillance.
4. : In recording and internet surveillance simultaneously.

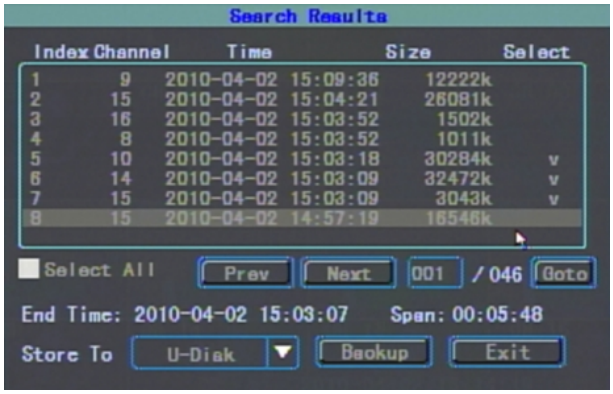
- **Recording Data option : playback and back-up**


Playback
Channel 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
Type Manual Alarm MTD. SCH.
Duration 2010-04-01 18:00:00
2010-04-02 23:59:59
Store To U-Disk
Search
Play by Time
Backup

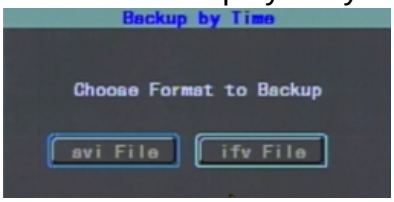
a. Select channel (Selected item would be shown as light blue).
b. Select recording mode: manual, alarm, motion and schedule.
c. Setup the time of beginning and end.
d. Select “ search “ and recording list be shown.
e. Select from the list with mouse or remote controller to playback.

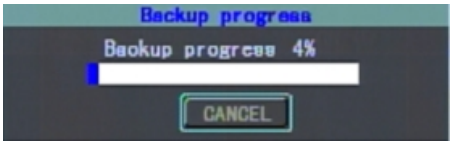


f. Mouse right click to select (Multi-selection be available) from list for backup, For remote controller, with “INFO” to select; “Select all” to back-up all.
g. Backup device：Select the backup path to device.



h. Select backup file type: ifv or avi.
Ifv: Needs to be played by Player.
Avi: Availabe to be played by other media player.

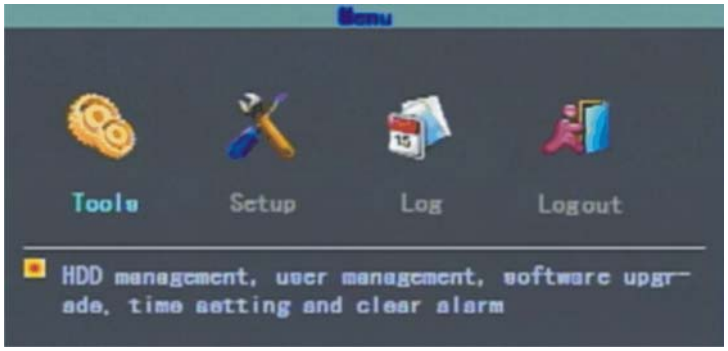




● Playback operation

Setup Operation	Front Panel&Remote Control	USB Mouse
Fast Rewind	[Fast Rewind]	[Left Click]
Fast Forward	[Fast Forward]	[Left Click]
Step Forward	[Step Forward]	[Left Click]
Step/Pause	[Step/Pause]	[Left Click] /
Play 1x	[Play]	[Left Click]
Stop	[Stop]	[Left Click]
Mute	ON/OFF	[Left Click] /
1~16 Single Channel Display	[CH. 1~16]	[Left Click] to select cnannel； Another [Left Click] back

7. Main Menu



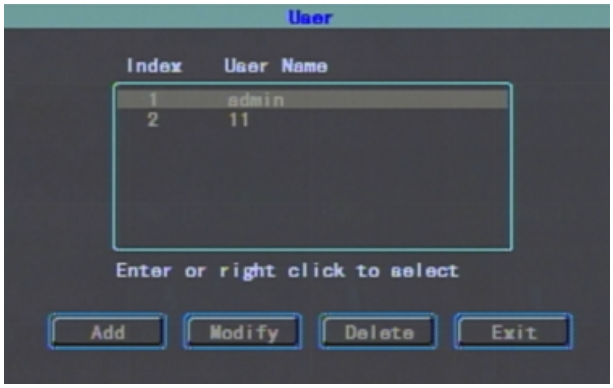
Setup Operation	Front Panel & Remote Control	USB Mouse
Select Item	[up / down、right / left]	[Moving Cursor]
Enter Select Item	[enter]	[Left Click]
Exit Main Menu	[MENU / ESC]	[Right Click]

7.1 Tools

7.1.1 HDD

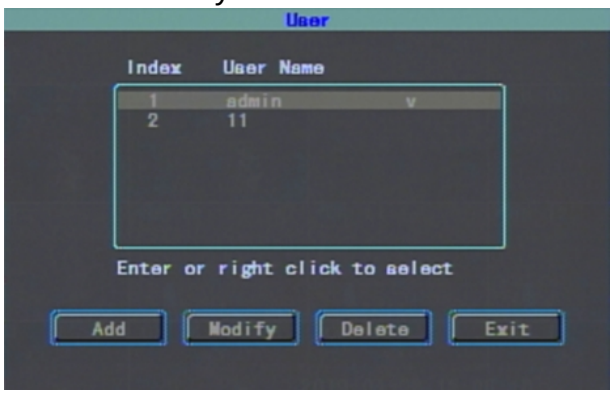
Formatted HDD and display HDD's information

7.1.2 User



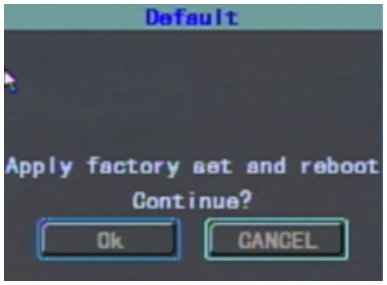
Add or Edit User’ s password and permissions : includes monitor, play-back, management, remote access, recording and ETC.. (Defaut administrator account: admin / no password)

1. Edit user name and password
   Select the user to Modify



7.1.3 Default

Setup every parameter back to default value.



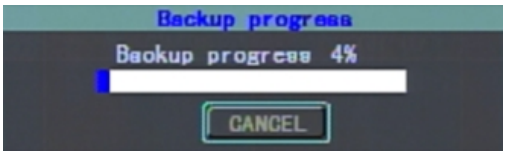
7.1.4 Clear

Clear all alarm access: record, setup and etc...

7.1.5 Upgrade

Pop-up window as below when “ upgrade ” selected:

Setup path for firmware to process. (Notice: STOP recording while up-grade)



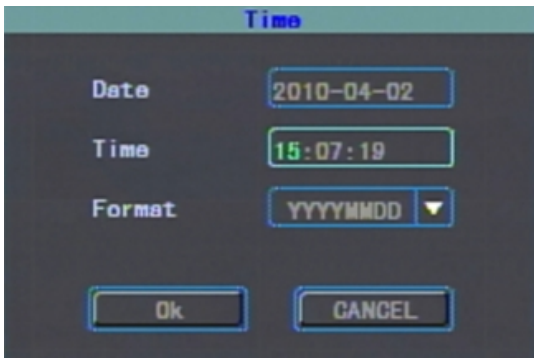
7.1.6 Time

Setup system date, time and display mode, as fig. below:

1.Setup system date.

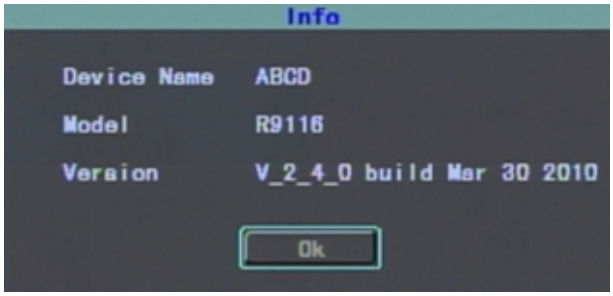
2.Setup system time.

3.Select display format .



7.1.7 Info

Display system information and firmware version.



7.2 Setup

Main Menu of Setup includes: setup, record, video, Alarmin, Alarmout, Schedule, Network, PTZ and MTD (Motion Detect).

7.2.1 Setup

a. Setup DVR ID(000-255)
b. Setup DVR Name
c. Setup if overwrite or not
d. Lock Time：Auto log-out after staying idle for certain time
e. Auto Switch
f. VGA : Supports resolution : 800x600, 1024x768, 1280x1024
g. Transparancy for menu display
h. Language: supports multi-language
i. Show Status: on/off Show Status: (alarm, manual, motion,

schedule and etc..)

7.2.2 Record

a. Channel: Separately setup parameters of each camera
b. Stream: Dual-mode stream for option :
   Main stream is for recording terminal and Sub-stream as the alternative for internet surveillance.
c. Stream: Audio recording; please disable when no audio to save system
d. CBR/VBR: CBR (Constant bitrate) and VBR(Variable bitrate).
e. Max Bitrate: setup the limitation of image transmission.
f. Frame Rate: setup recording frame.
g. Quality: Setup recording Quality (6 as the best).

★ ***VBR files vary the amount of output data per time segment.It allows a higher bitrate (and therefore more storage space) to be allocated to the more complex segments of media files while less space is allocated to less complex segments. CBR file fixed the amount of output data per time segment.***

Notice: Each camera could be setup individuliy and check all camera setup be highly necessary; and "copy"setup to rest camera intrusted as fig. below:

7.2.3 Video

Setup parameter

a. Select camera
b. Setup camera name
c. Setup the camera name if displayed or not and its position

d. Setup the time if displayed or not and its position
e. Setup the brightness, contrast, hue and saturation
f. Setup blind area and recording

Notice: Each camera could be setup individuliy and check all camera setup be highly necessary.

7.2.4 Alarmin

There are four alarm in to setup:

a. Input: Select camera
b. Detect: Select if enable the alarm
c. Select the type of alarm input
d. Duration: setup the time of alarm output
e. And relative setup for alarm output as follows:
    1. Duration : setup the time of alarm output
    2. PTZ: setup the movement of PTZ (SPEED DOME) when triggered.
    3. Recording CH: Setup certain cameras to recording when triggered.
    4. Alarmout: enable alarmout when triggered.

7.2.5 Alarmout

There are two alarmout to setup as NC or NO: Also setup Email sending address in this window.

7.2.6 Schedule

Except manual recording, all must be setup in Schedule, or the relative setup would be faild,and its setup as follows:

a. Channel : Setup camera
b. Week : select the date for each week and all for everyday
c. Time # : select recording interval
d. Select recording type; Schedule, Motion detect and Alarm which goes after recording interval selecting
e. Time axis means: Schedule (in Red), Motion detect (in Green)and Alarm(in Yellow)

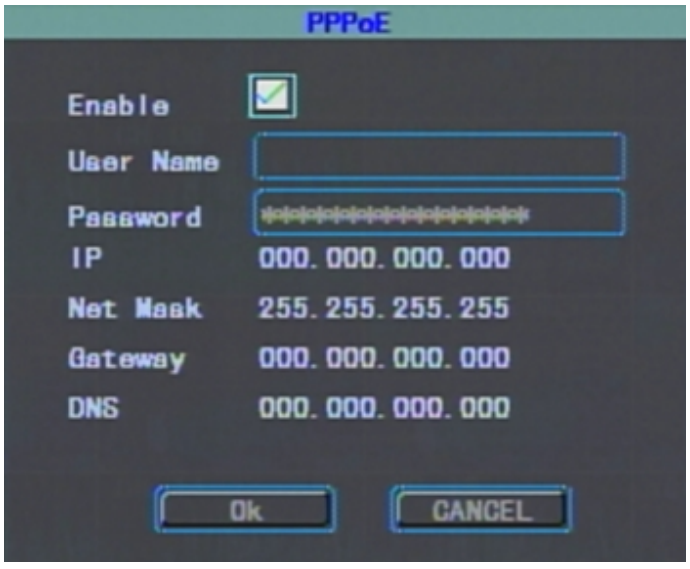
Notice: Each camera could be setup individuliy and check all camera setup be highly necessary.

7.2.7 Network

Set the connection method:

a. LAN：Static IP or DHCP
   1. DHCP : IP auto-dispatched when selected.
   2. Static IP: IP Address, default gateway, net mask, DNS be required when selected.
   3. Default value of (Control) port and HTTP port be 8670 and 80 for remote access into DVR.

b. PPPoE: for ADSL user to setup
   1. Select: enable.
   2. Enter User Name and Password offered from ISP.



c. DDNS Setup: Required to register Dynamic Domain Name Service at first
   1. Select enable and DDNS provider.

2. Enter User Name and Password.
3. Enter registered DDNS provider's Domain Name.

7.2.8 PTZ

a. PTZ: PTZ setup needs to match Speed Dome's parameter: Baud Rate , Protoco land ID.
b. Supports Default spot, cruiser and tracking setup.

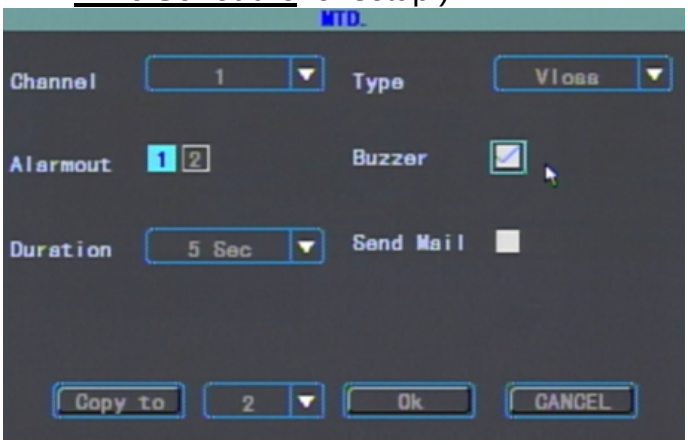
7.2.9 MTD (Motion Detect)

Supports three mods for motion detect:

A. Motion detect: Enable / disable motion detect and related setup
   a. Select MTD.
   b. Select Camera.
   c. Setup sensitivity : Lowest, low, Middle, High, Hightest and Disable.
   d. Setup detect area: offer 4 area as 22*15 units (transparency means not selected; and Red Area selected).
   e. Relative setup as follows, when triggered:
      1. Duration: setup the time of alarm output.
      2. Rec. CH: setup recording channel when triggered.
      3. Buzzer: Enable / disable buzzer.
      4. Alarmout: Enable / disable alarm-out when triggered.
      5. Send Mail: Enable / disable SMTP when triggered (refer to **7.2.6 Schedule** for setup).

Notice: Each camera could be setup individuliy and check all camera setup be highly necessary.

B. Vloss: Enable / disable Video loss detect and related setup.
   a. Select type to Vloss.
   b. Select Camera.
   c. Relative setup as follows, when triggered:
      1. Duration: setup the time of alarm output.
      2. Buzzer: Enable / disable buzzer.
      3. Alarmout：Enable / disable alarm-out when triggered.
      4. Send Mail：Enable / disable SMTP when triggered (refer to **7.2.6 Schedule** for setup)

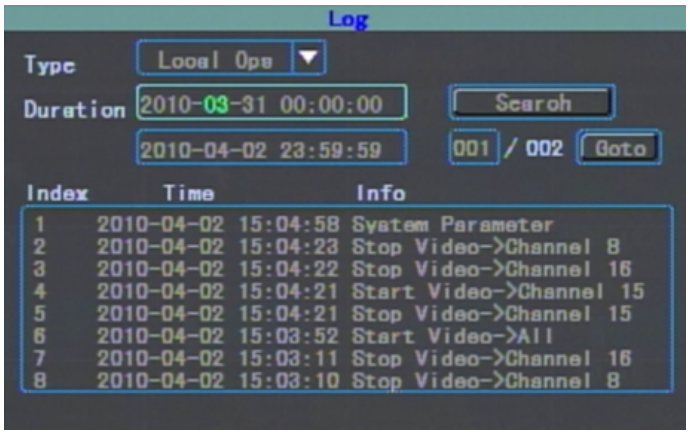


C. Blind: Enable / disable Blind detect and related setup
   a. Select type to Blind.
   b. Select Camera.
   c. Relative setup as follows, when triggered:
      1. Duration: setup the time of alarm output
      2. Buzzer: Enable / disable buzzer
      3. Alarmout: Enable / disable alarm-out when triggered
      4. Send Mail: Enable / disable SMTP when triggered
         (refer to **7.2.6 Schedule** for setup).

7.3 Log

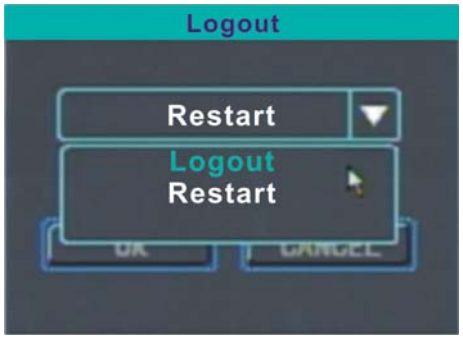
Log is record of every setup and modification, up to 2000 lists.
Operation：

a. Select record type: alarm, local event, remote event, video abnormal and all.
b. Setup time segment and then “ search “.



7.4 Logout

Options for Logout and Restart.



8. Player

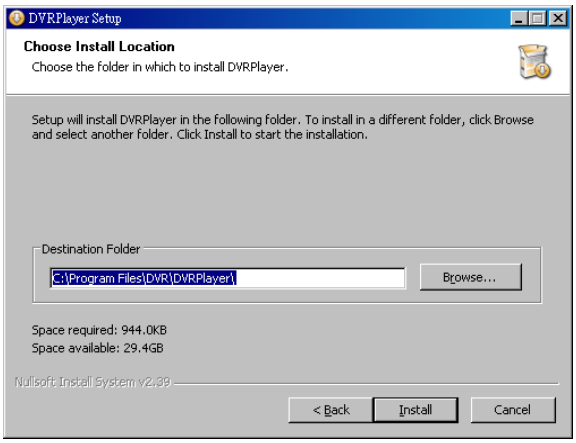
Recording backup file formated is .ifv, and need to be played by Player, which will be: A.In the CD attached, B.with the backup file to USB device, C. Directly download via

IE from DVR, D.Our website: www.fuho.com.tw

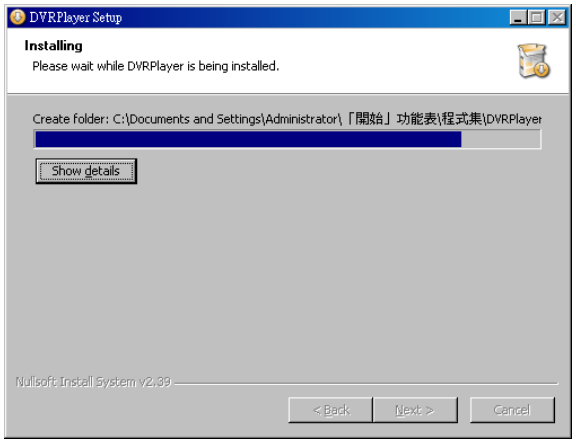
To install Player after un-zip the file, its steps as follows:

DVRPlayer Setup
Welcome to the DVRPlayer Setup Wizard
This wizard will guide you through the installation of DVRPlayer.
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
Next >
Cancel

Step 1: Click ”NEXT”


DVRPlayer Setup
Choose Install Location
Choose the folder in which to install DVRPlayer.
Setup will install DVRPlayer in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.
Destination Folder
C:\Program Files\DVR\DVRPlayer\
Browse...
Space required: 944.0KB
Space available: 29.4GB
Nullsoft Install System v2.39
< Back
Install
Cancel

Step 2: Select the Install Location and then “Install”.



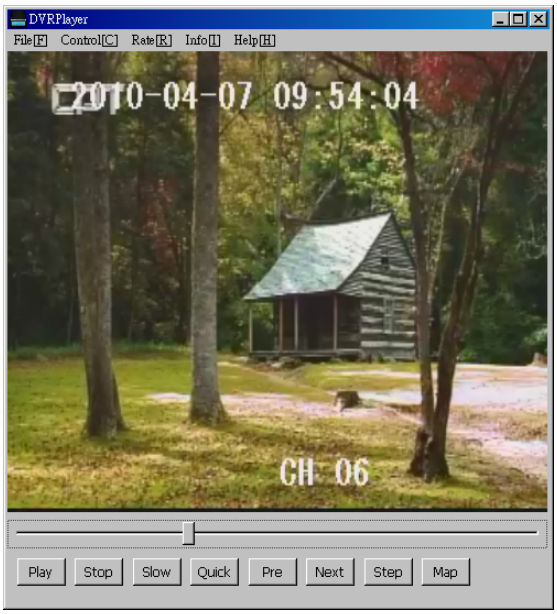
Step3: Installing.

Step 4: Click “Finish” to complete install.

Shows the icon as right as the PLAYER

after finish install

Executive the Player or backup file directly, it would be shown as follows:



Functional instruction is as follows:

a. "play"/"pause": play / pause file.
b. "stop": stop file.
c. "Slow": slow play at 1/2, 1/4 and 1/8 speed.
d. "Quick": Quick play at X2, X4 adn X8 speed.
e. "Pre": backward play to 10% of file time.
f. "Next": foreward play to 10% of file time.
g. "Step": play frame by frame.
h. "Map": Directly snap shot images, as saving path will be required.

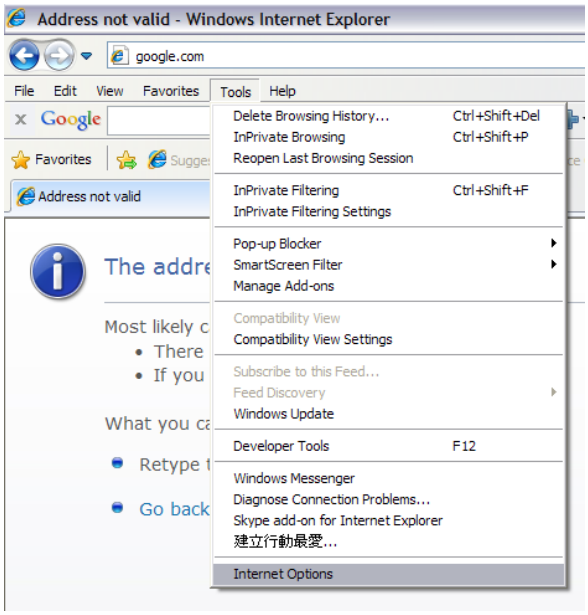
9. Internet Explorer (IE) operational instruction

9.1 IE Security setting:

There two method to solve when internet interface be loaded improperly:

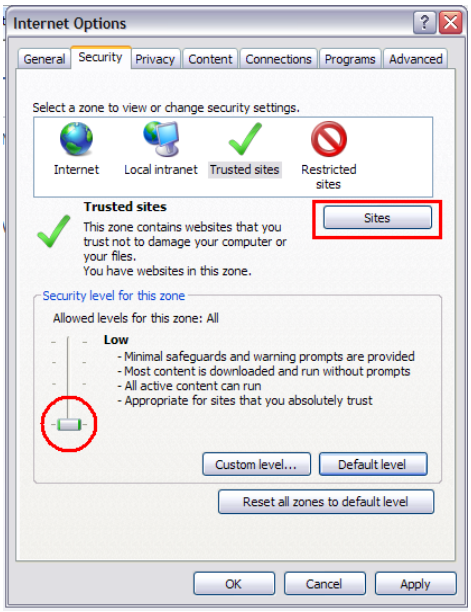
Method 1:

1. To IE 6.0 and 7.0, for example, select " Tools" and then " Internet Option " as follows:

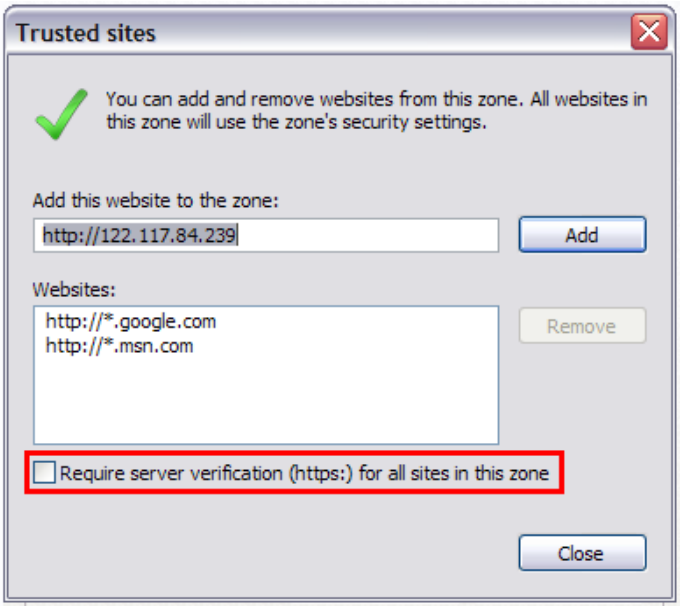


2. Select"Security"above and then " reliable Website" , change to " low

security “ after set “ default” and then apply , and select “ site “ after all :

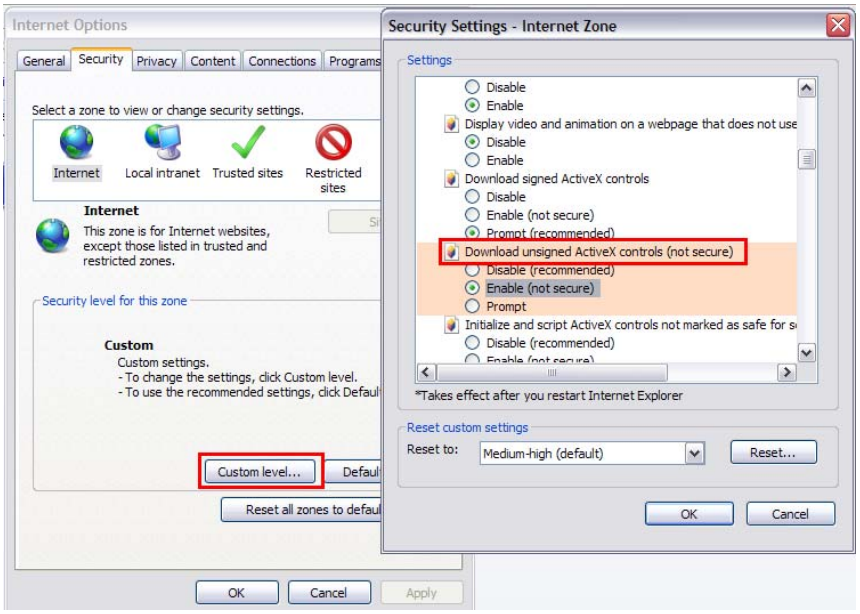


3. Type http://122.117.84.239 in the pop-up next, as the fig below, and remove the hook from the block marked，and click “yes” that everything be all set; The same way for WINDOW 7.


Trusted sites
You can add and remove websites from this zone. All websites in this zone will use the zone's security settings.
Add this website to the zone:
http://122.117.84.239
Add
Websites:
http://*.google.com
http://*.msn.com
Remove
Require server verification (https:) for all sites in this zone
Close

Method 2：

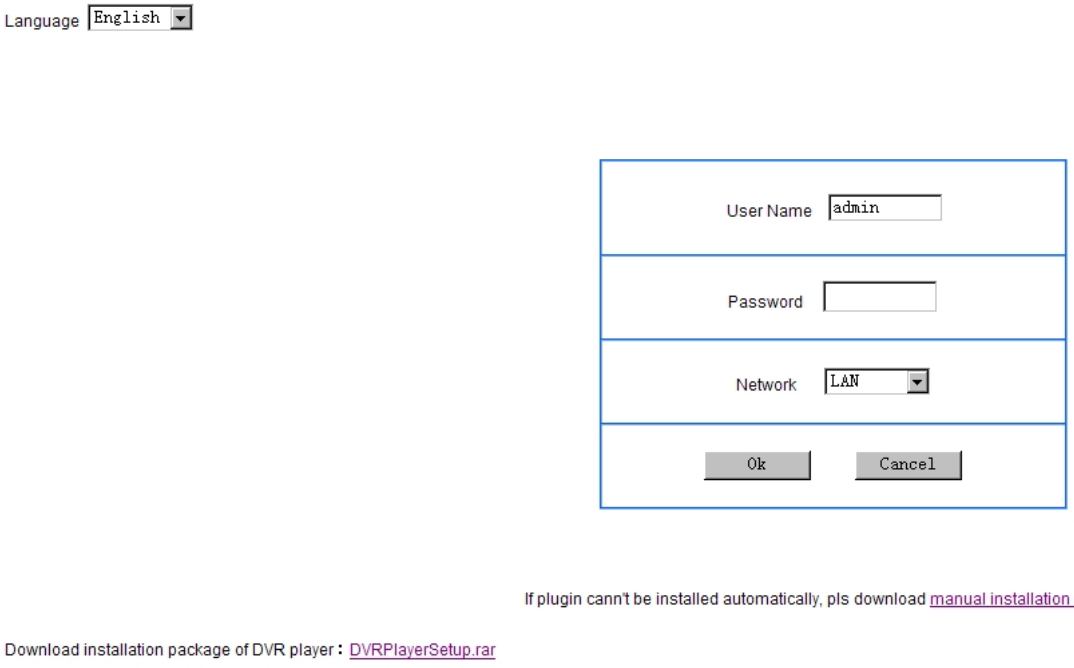
Select “ Tools” and then “ Internet Option “ and then “ Custom level” of security



Change “download un-regestered ActiveX “option to enable.

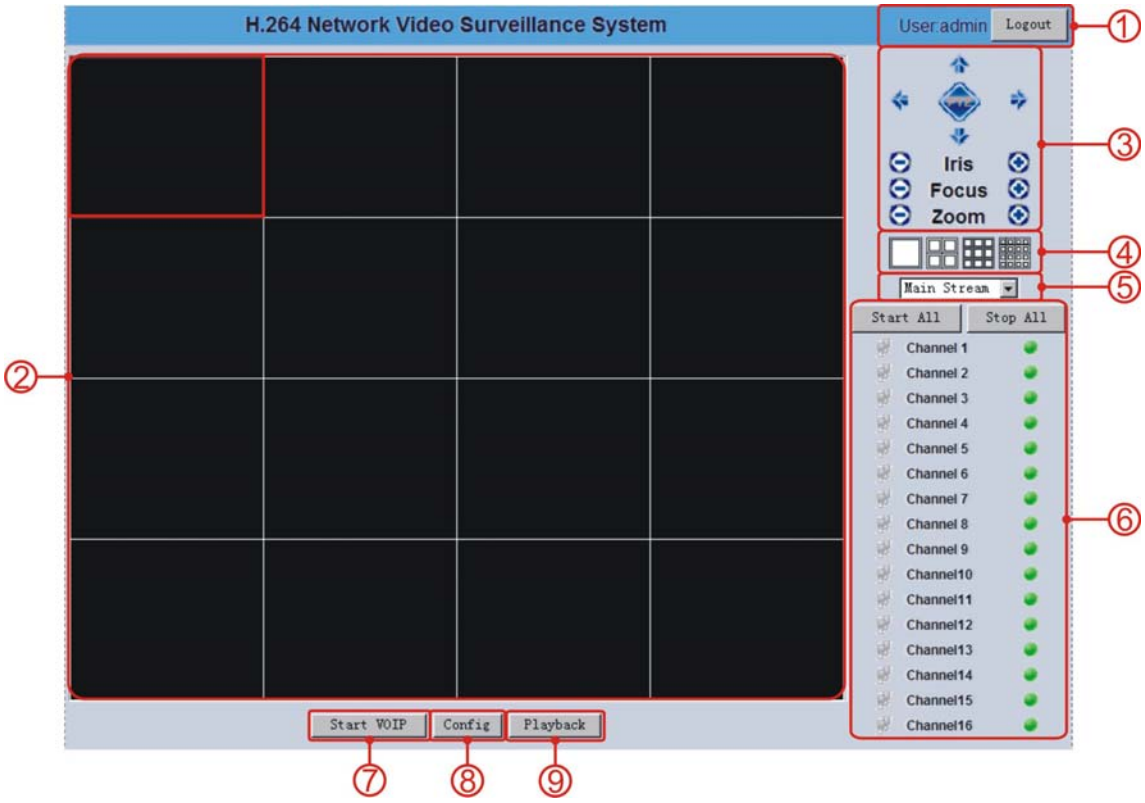
9.2 IE Login

Enter DVR’s IP address and log-in window will pop-up as fig. below, and then select Language and enter user name and password, that access will be after interface be loaded successfully.



9.2.1 Main surveillance interface

It’s shown as below: Monitor, PTZ, Split display (single, quad, 9 , 16 split) , Stream (main stream,/ sub-stream), Camera switch on/ off, Start VOIP, config, playback and log out and etc..



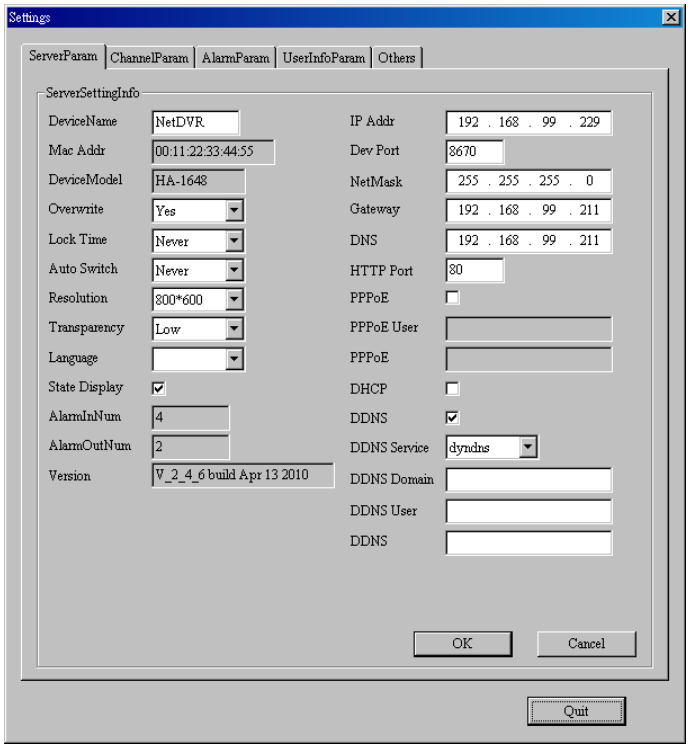
Key-icon Instruction:

1. logout
2. Split monitor：display live images
3. PTZ option:
   a. movement control.
   b. Iris: Adjust PTZ iris.
   c. Focus: Adjust PTZ focus.
   d. Zoom in / out for PTZ.
4. Split monitor: option for single, quad, 9 and 16 split
5. Stream: refer to **7.2.2 Record**, sub-stream is for weak internet condition
6. Camera condition: pick up camera to on / off ， Channel 1 means Camera on， Channel 1 means Camera off; Red marked means selected channel, and switch on/off by double click ,and all camera position be arrange-able.
7. Start VOIP: Enable/ Disable audio communication.
8. Config: Setup DVR relative parameter.
9. Playback: Playback/ download recording data from time segment, motion detection, alarm and manual.

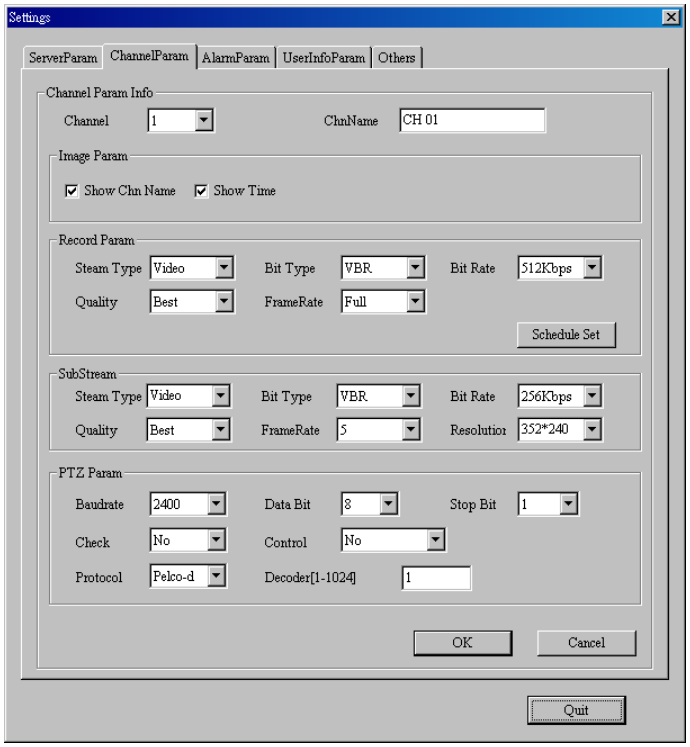
9.2.2 Remote Setup

Setup / modify parameter in “ Config “:

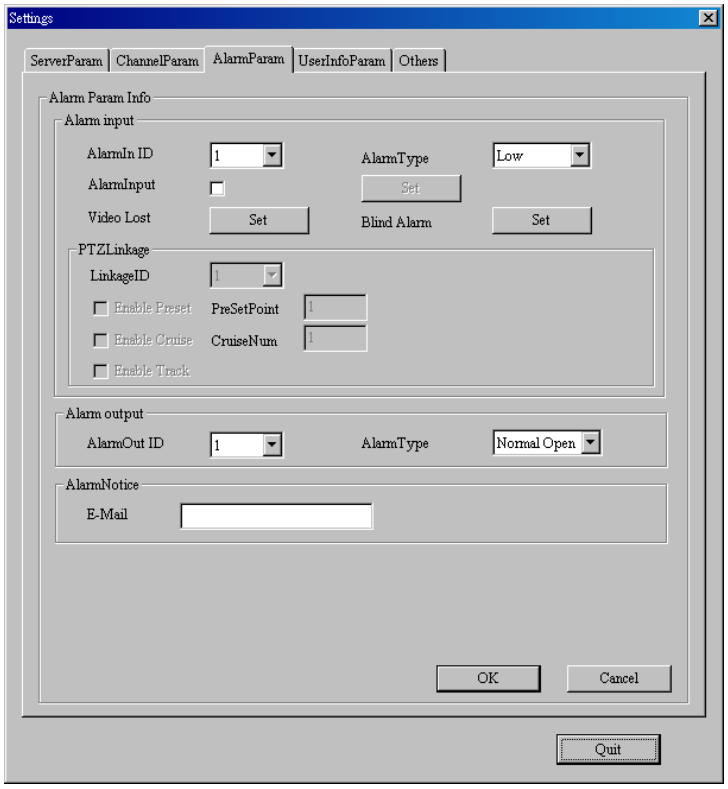
a. Sever Parameter: Setup / modify DVR Name, Over-write, lock time, Auto-switch, VGA, transparancy, State Display, IP Address, DDNS and etc…



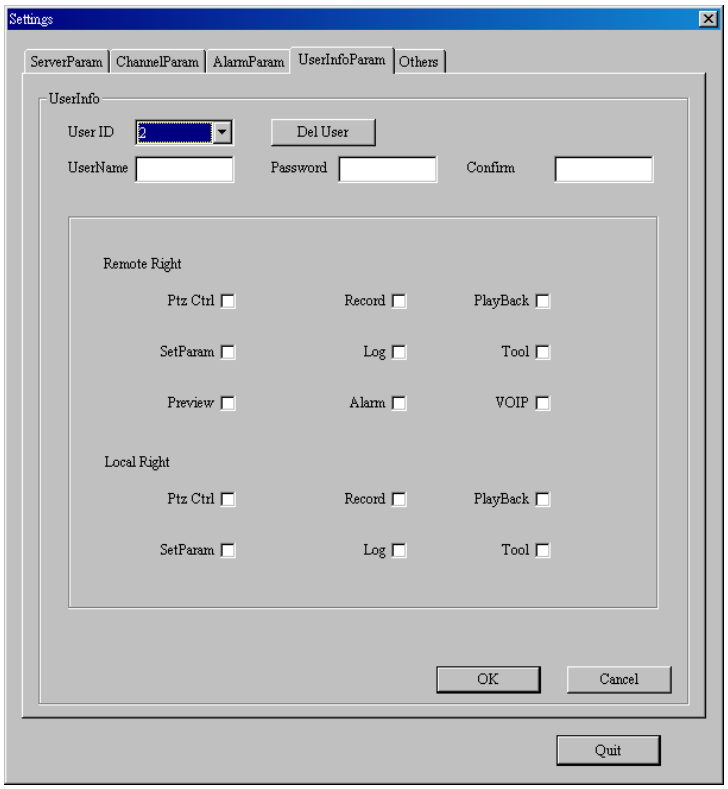
b. Channel Parameter: Setup / modify Camera Name, Display Mode, Time mode, recording frame, Quality、Bit-type and that of Sub-stream, PTZ and etc…



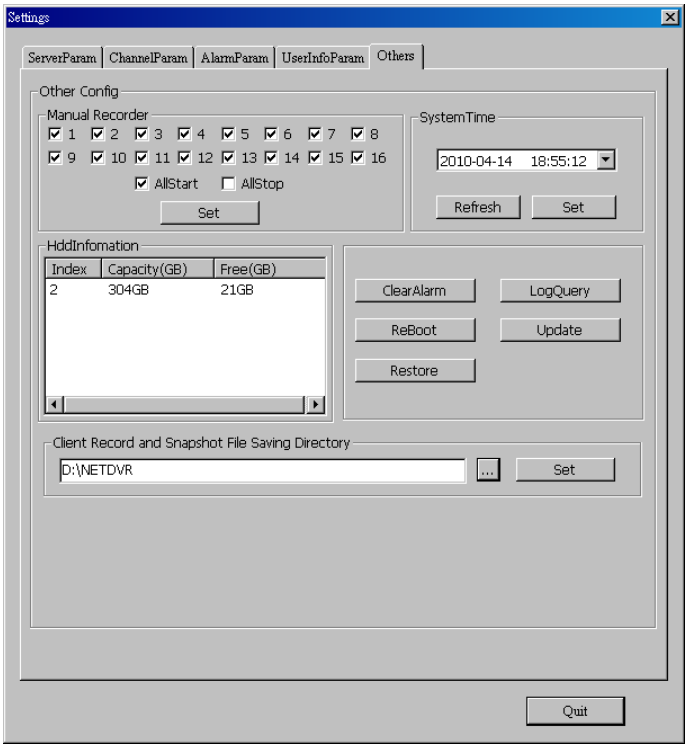
c. Alarm Parameter: Setup / Modify Alarm input/ output.



d. User Info Parameter: Setup / modify user permission.



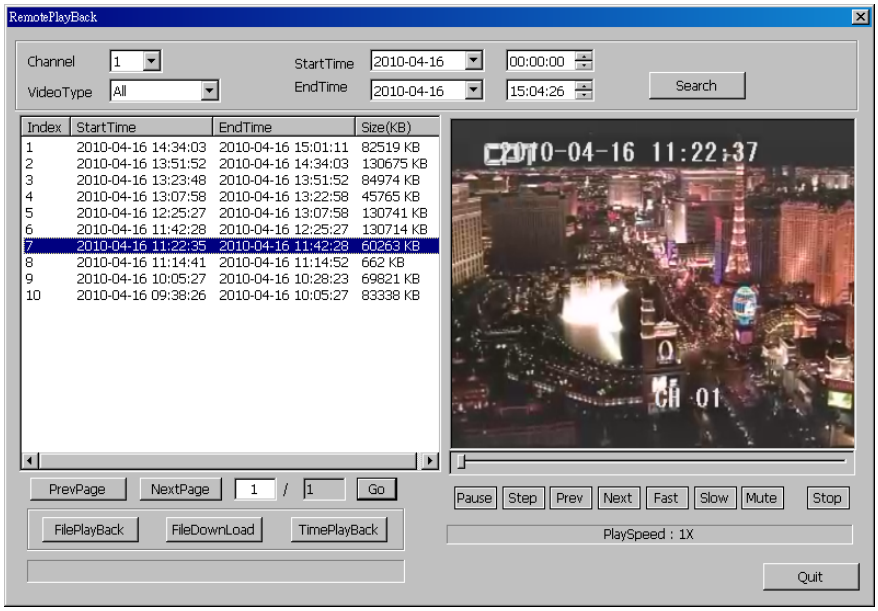
e. Other：Manual recording, System time, clear alarm, event, Log list, reboot, update, restore, client record and snapshot file saving diretory.



9.2.3 Remote Playback

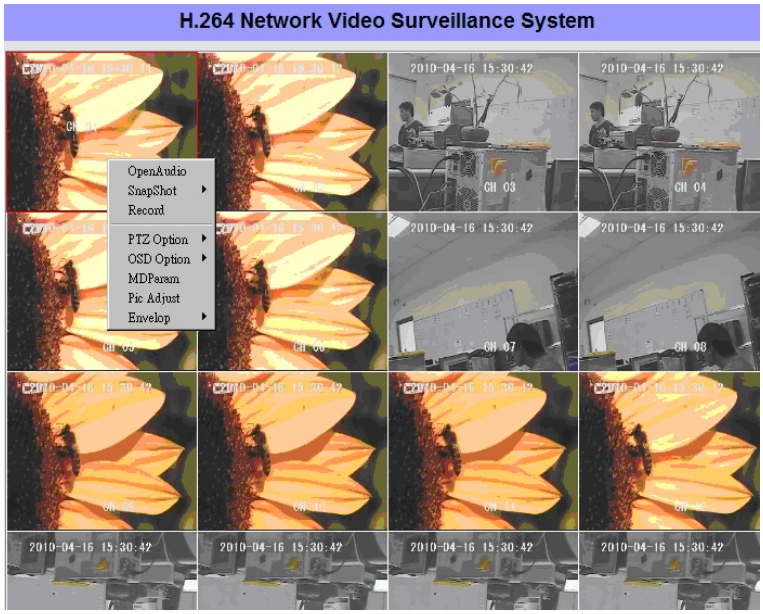
Playback / download recording data from time segment, motion detection, alarm, manual and operation:

a. Select camera.
b. Setup the time segment and then“Search”(or click“Time Playback”to playback directly).
c. Selected list could be played by double click or“file playback”.
d. And download the file to local terminal by “file download”.
e. Refer to **8 . Player** for operation.



9.2.4 Remote surveillance function

Right click upon certain channel in main display and the quick manu would be shown as below:



a. OpenAudio: CH. 1-3 could be recording with audio synchronously (CH. 4 is for audio inter-communication), click directly to enable remote monitor; and disable one channel's audio is needed before enable another channel.

b. Snapshot: live snapshot to .bmp or JPG file.

c. Record: remotely recording selected channel.

d. PTZ option: setup PTZ's default spot, cruiser, tracking and etc….

e. OSD option: setup OSD of the camera name and time display.

f. MD param: setup motion detect area (available for mouse select directly).

g. PIC adjust: setup selected channel's brightness, contrast, hue, and saturation.

h. Envelop: setup area and blind function.

10. Instructions of Software Installation on Mobile Phones

Mobile device application software can be remotely connected DVR, monitor real-time images display. Mobile device must install the application software beforehand. Supported operating systems are Symbian, Windows Mobile, APPLE I-Phone, Google mobile phones. The following are required application software of using on the Mobile system, (instored on the CD disk which enclosed with DVR):

Note: For mobile phone connection, set Port 2 to 101.
Open the port if the DVR is connected to a router or a server.

1. iPhone: Download cplayer from Apple Store. Please refer to iPhone-CPlayer Installation Guide.
2. Symbian: Please download different software accordingly.
   a. Symbian ver.5: *RemoteEye_5th.sisx*
   b. Symbian ver.3, E series (horizontal display): *RemoteEye_3rd_E.sisx*
   c. Symbian ver.3, N series (vertical display): *RemoteEye_3rd_N.sisx*
3. Google Android: Please download RemoteEye for *Google.apk*
4. Windows Mobile, please install RemoteEye for *Mobile.cab*

11. HDD Support List

All in the list below has been tested and be recommended for functional ensuring.

BRAND	MODEL NUMBER	CAPACITY
SEAGATE	ST3250310CS	250G
	ST3320410SV	320G
	ST3500312CS	500G
	ST3750528AS	750G
	ST31000424CS	1T
	ST31500541AS	1.5T
	ST32000542AS	2T
HITACHI	HCT721025SLA380	250G
	HCT721032SLA380	320G
	HCP725050GLA380	500G
	HCT721010SLA360	1T
WD	WD3200AVVS	320G
	WD3200AAKS	320G
	WD5000AVVS	500G
	WD10EVVS	1T
	WD2001FASS	2T

12. USB Flash Memory Stick Support List

All in the list below has been tested and be recommended for functional ensuring.

BRAND	MODEL NUMBER	CAPACITY
Transcend	Jetflash V20	4G
	Jetflash V20	8G
	Jetflash V30	16G
	Jetflash V20	32G
Adata	PD1	1G
	PD1	4G
	PD1	8G
	C801	16G
	C801	32G
SONY	Microvault	8G
	Microvault	16G
SanDisk	Cruzer Micro	4G
	Cruzer Micro	8G
	Cruzer Micro	16G
Kingston	DTIG2	4G
	DTIG2	8G
	DTIG2	16G